

AMENDMENTS TO THE CLAIMS

1-37. (Cancelled).

38. (Previously Presented) A containment device comprising:
a proximal end, a distal end, and a longitudinal axis extending therethrough;
at least three supports extending between the proximal end and the distal end;
each support comprising an elongate, flexible element which is movable from a
first orientation in which the element extends substantially parallel to the axis at no more
than a first distance from the axis, to a second orientation in which at least a portion of
the element is inclined with respect to the axis and is separated by at least a second
distance from the axis which is greater than the first distance; and

an endothelialization membrane carried by the device, for promoting
endothelialization across the hollow body structure,

wherein the endothelialization membrane at least in part comprises a first
membrane on a first side of the supports, a second membrane on a second side of the
supports, and a bonding layer for bonding the first membrane and the second layer
membrane together.

39. (Previously Presented) A containment device as in Claim 38, comprising at least
five supports.

40. (Previously Presented) A containment device as in Claim 38, comprising from
about five supports to about twenty supports.

41. (Previously Presented) A containment device as in Claim 38, further comprising a
proximal hub at the proximal end and a distal hub at the distal end.

42. (Previously Presented) A containment device as in Claim 41, wherein the
supports and the proximal hub and the distal hub are formed from a tube.

43. (Previously Presented) A containment device as in Claim 41, wherein the
supports and the proximal hub and the distal hub are formed from a sheet.

44. (Previously Presented) A containment device as in Claim 38, further comprising
at least one barb on each support.

45. (Previously Presented) A containment device as in Claim 40, further comprising
at least one barb on each of at least two supports.

46-50. (Cancelled).

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51. (Previously Presented) A containment device for implantation with in a tubular structure in the body, comprising:

a support member comprising at least three spokes which are movable from a reduced cross-section to an enlarged cross-section, the spokes movable from an axial orientation when the occluding member is in the reduced cross-section to an inclined orientation when the occluding member is in the enlarged cross-section, and

a porous endothelialization membrane carried by the support,

wherein the endothelialization membrane at least in part comprises a first membrane on a first side of the device, a second membrane on a second side of the device, and a bonding layer for bonding the first membrane and the second membrane together.

52. (Previously Presented) A containment device as in Claim 51, further comprising at least one hub on the support for holding the spokes.

53. (Previously Presented) A containment device as in Claim 51, wherein the support comprises at least eight spokes.

54. (Previously Presented) A containment device as in Claim 52, wherein at least one spoke has a first end and a second end, and the first end is attached to the hub.

55. (Previously Presented) A containment device as in Claim 51, wherein each spoke comprises a proximal section, a distal section, and a bend in between the proximal and distal sections when the support is in the enlarged cross-section.

56. (Previously Presented) A containment device as in Claim 51, wherein the spokes comprise wire.

57. (Previously Presented) A containment device as in Claim 51, wherein the spokes are cut from a tube.

58. (Previously Presented) A containment device as in Claim 51, further comprising at least one tissue attachment element on the support.

59. (Previously Presented) A containment device as in Claim 58, wherein the tissue attachment structure comprises a tissue piercing element.

60. (Previously Presented) A containment device as in Claim 59, comprising at least one barb on each spoke.

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61. (Previously Presented) A containment device as in Claim 38, wherein the supports comprise a nickel titanium alloy.

62. (Previously Presented) A containment device as in Claim 38, wherein the supports comprise stainless steel.

63. (Previously Presented) A containment device as in Claim 38, wherein the first and second membranes comprise ePTFE.

64. (Previously Presented) A containment device as in Claim 38, wherein the first and second membranes comprise Dacron.

65. (Previously Presented) A containment device as in Claim 38, where the first and second membranes comprise nylon.

66. (Previously Presented) A containment device as in Claim 38, wherein the endothelialization membrane has a pore size of no greater than about 0.04 inches.

67. (Previously Presented) A containment device as in Claim 38, wherein the containment device comprises a self expandable structure.

68. (Previously Presented) A containment device as in Claim 38, wherein the containment device comprises a self expandable wire structure.

69. (Previously Presented) A containment device as in Claim 67, wherein the self expandable structure comprises wire mesh.

70. (Previously Presented) A containment device as in Claim 67, wherein the self expandable structure comprises braided wire.

71. (Previously Presented) A containment device as in Claim 67, wherein the self expandable structure comprises wire coil.

72. (Previously Presented) A containment device as in Claim 67, wherein the self expandable structure comprises shape memory material.

73. (Previously Presented) A containment device as in Claim 67, wherein the self expandable structure comprises pseudoelastic alloy.

74. (Previously Presented) A containment device as in Claim 67, wherein the self expandable structure comprises nickel titanium alloy.

75. (Previously Presented) A containment device as in Claim 67, wherein the self expandable structure comprises stainless steel.

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76. (Previously Presented) A containment device as in Claim 67, wherein the self expandable structure comprises composite material.

77. (Previously Presented) A containment device as in Claim 54, further comprising at least one tissue attachment element on the support.

78. (Previously Presented) A containment device as in Claim 54, wherein the supports comprise a nickel titanium alloy.

79. (Previously Presented) A containment device as in Claim 54, wherein the supports comprise stainless steel.

80. (Previously Presented) A containment device as in Claim 54, wherein the first and second membranes comprise ePTFE.

81. (Previously Presented) A containment device as in Claim 54, wherein the first and second membranes comprises Dacron.

82. (Previously Presented) A containment device as in Claim 54, where the first and second membranes comprises nylon.

83. (Previously Presented) A containment device as in Claim 51, wherein the endothelialization membrane has a pore size of no greater than about 0.04 inches.

84. (Previously Presented) A containment device as in Claim 51, wherein the containment device comprises a self expandable structure.

85. (Previously Presented) A containment device as in Claim 84, wherein the containment device comprises a self expandable wire structure.

86. (Previously Presented) A containment device as in Claim 84, wherein the self expandable structure comprises wire mesh.

87. (Previously Presented) A containment device as in Claim 84, wherein the self expandable structure comprises braided wire.

88. (Previously Presented) A containment device as in Claim 84, wherein the self expandable structure comprises wire coil.

89. (Previously Presented) A containment device as in Claim 84, wherein the self expandable structure comprises shape memory material.

90. (Previously Presented) A containment device as in Claim 84, wherein the self expandable structure comprises pseudoelastic alloy.

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91. (Previously Presented) A containment device as in Claim 84, wherein the self expandable structure comprises nickel titanium alloy.

92. (Previously Presented) A containment device as in Claim 84, wherein the self expandable structure comprises stainless steel.

93. (Previously Presented) A containment device as in Claim 84, wherein the self expandable structure comprises composite material.

94. (Previously Presented) A containment device as in Claim 84, wherein the self expandable structure has at least one proximally concave surface and at least one distally concave surface when in an expanded configuration.

95. (Previously Presented) A containment device as in Claim 51, wherein the bonding layer comprises a mesh.

96. (Previously Presented) A containment device as in Claim 95, wherein the mesh comprises polyethylene.

97. (Previously Presented) A containment device as in Claim 96, wherein the mesh has an open surface area within the range of from about 10% to about 90%.

98. (Previously Presented) A containment device as in Claim 96, wherein the mesh has an open surface area within the range of from about 30% to about 60%.

99-100. (Cancelled)

101. (Previously Presented) A device for implantation within a left atrial appendage of a patient, the device comprising:

a proximal end, a distal end, and a longitudinal axis extending therethrough;

at least three supports extending between the proximal end and the distal end;

each support comprising an elongate, flexible element which is movable from a first orientation in which the element extends substantially parallel to the axis at no more than a first distance from the axis, to a second orientation in which at least a portion of the element is inclined with respect to the axis and is separated by at least a second distance from the axis which is greater than the first distance; and

an endothelialization membrane attached to at least a proximal face of the device having a pore size sufficient to permit endothelialization.

102. (Previously Presented) The device of Claim 101, wherein the endothelialization membrane has a porosity in the range of about 5 to about 60 microns.

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103. (Previously Presented) The device of Claim 101, wherein the endothelialization membrane has a porosity in the range of about 10 to about 100 microns.

104. (Previously Presented) The device of Claim 101, wherein the endothelialization membrane has a porosity in the range of up to about 0.04 inches.

105. (Previously Presented) The device of Claim 101, wherein the endothelialization membrane has a porosity of up to about 0.005 inches.

106. (Previously Presented) The device of Claim 101, wherein the endothelialization membrane comprises a first membrane and a second membrane, wherein the first membrane and second membrane are attached to each other on opposite sides of the supports.

107. (Previously Presented) The device of Claim 101, further comprising a proximal hub at the proximal end and a distal hub at the distal end.

108. (Previously Presented) The device of Claim 101, wherein the supports comprise a nickel titanium alloy.

109. (Previously Presented) The device of Claim 101, wherein the membrane comprises ePTFE.

110-128. (Canceled)